

FEDERAL PUBLIC SERVICE COMMISSION COMPETITIVE EXAMINATION-2017 FOR RECRUITMENT TO POSTS IN BS-17 UNDER THE FEDERAL GOVERNMENT

Roll Number

GEOLOGY

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TIME AL PART-I(M	LOWED: THREE HOURS ICQS): MAXIMUM 30 MINUTE	PART-I (MCQS) PART-II	MAXIMUM MARK MAXIMUM MARK	
NOTE: (i) (ii)	Part-II is to be attempted on the set Attempt ONLY FOUR questions SECTION. ALL questions carry E i) All the parts (if any) of each Questions places. C) Candidate must write Q. No. in the No Page/Space be left blank between the processed.	eparate Answer Book. from PART-II by select EQUAL marks. stion must be attempted at Answer Book in accordance een the answers. All the beautiful answers.	ing TWO questions from t one place instead of at d ce with Q. No. in the Q.Pap lank pages of Answer Boo	EACH lifferent per. ok must
Q. No. 2.	Describe structure of neso silicates. properties of olivine group of minera		rate physical and optical	(20)
Q. No. 3.	Describe development of different types of metamorphic facies during subduction process. With the help of temperature-pressure diagram, elaborate regimes of metamorphic facies.			(20)
Q. No. 4.	What categories of information we depict from the fossils found in sedimentary strata? (2) Give examples. Describe some of common processes of fossilization.			(20)
Q. No. 5.	Outline important events of Indian I onwards in Pakistan region. Draw sk		tectonics from Mesozoic	(20)
	<u>S</u>	ECTION-II		
Q. No. 6.	Enlist methods of surface and ne	1 1 0	•	(20)

- Q. No. 6. Enlist methods of surface and near surface prospecting methods of oil and gas.

 Describe implementation details of any two methods, leading to successful discovery of hydrocarbon in a region.
- Q. No. 7. Discuss the geological conditions that normally trigger land sliding in northern (20) Pakistan. Describe some of the measures to mitigate its effects.
- Q. No. 8. Write notes on any TWO of the following: (10 each)
 - a. Polarizing microscope
 - **b.** Paleobotany
 - c. Geothermal energy
